



A.D. 1872, 5th NOVEMBER. N° 3277.

Inhaling Apparatus.

(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by Robert James Lee at the Office of the Commissioners of Patents, with his Petition, on the 5th November 1872.

I, ROBERT JAMES LEE, of 28, Maddox Street, Regent Street, in the
5 County of Middlesex, do hereby declare the nature of the said In-
vention for “IMPROVEMENTS IN INHALING APPARATUS, APPLICABLE ALSO FOR
HEATING MEDICAL BATHS,” to be as follows :—

The object of this Invention is mainly to enable invalids suffering
from bronchitis or diseases of the throat to readily inhale a warm moist
10 atmosphere. For this purpose I mount a small copper boiler at the top
of a metal casing or stand, which is formed to receive a lamp below the
boiler ; through the upper part of the boiler is passed a tube open at
both ends, into this tube near its centre a small pipe is led from the
interior of the upper part of the boiler, and the end of the small pipe is
15 formed into a jet parallel with the tube and centrally within it. At the
top of the boiler is a screw plug carrying a small safety valve.

When the boiler is heated by the lamp a jet of steam is thrown from
the jet before mentioned along the centre of the tube and the steam jet

Lee's Improvements in Inhaling Apparatus.

draws the air in the tube along with it. The stream of air so carried through the tube is not only heated in its passage but is also supplied with moisture by the steam. To the end of the tube from which the stream of moist heated air issues may be attached a pipe of vulcanized india-rubber terminating in a suitable mouth piece, and the air as it 5 passes from the mouth piece can readily be inhaled by a patient even when lying in bed.

The apparatus is also applicable for supplying a stream of heated air to medical baths. Usually these baths have been heated by a lamp placed below the chair or couch upon which the patient rests and within 10 the covering by which the patient is enveloped.

By using the apparatus above described the lamps may be situated outside of this covering, and a stream of warm air be directed into it through the flexible pipe.

If it be desired to still further heat the stream of air, the open end of 15 the tube through which the stream of air is drawn in by the steam jet may have connected to it another metal pipe which is led through the metal case or stand so that it shall be heated by the lamp, the incoming stream of air will then have to pass through a longer length of heated pipe. 20

LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1873.